

# Bekam Guta (he/him)

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## EDUCATION

### DePauw University

Graduation Date: May 2027

**B.A. in Computer Science** | Cumulative GPA: **3.97/4.00** | Major GPA: **4.00/4.00**

**Relevant courses and credits:** Data Structures & Algorithms; Object-Oriented Software Development; Computer Systems; Foundations of Computation; Database and File Systems; Operating Systems (Fall 2025)

**Awards :** Distinguished Scholar Award Recipient ('24) | Dean's List (Every semester) | Top Performing Intern at Fullsteam ('24) | Best Research Paper Award ('21) | First Place, DePauw Google Developer Student Clubs Hackathon ('23)

## TECHNICAL SKILLS

- **Languages:** Python, Java, C++, C#, Swift, Objective-C, HTML, TypeScript, CSS
- **Frameworks:** TensorFlow, PyTorch, scikit-learn, OpenAI API, .NET MAUI, Node.js, React, Flutter, SwiftUI
- **Cloud & Databases:** Google Cloud Platform, Azure, AWS ; SQL (MySQL); NoSQL (Firebase)
- **Tools:** Git, Docker, Linux, Visual Studio Code, Xcode, Visual Studio, PyCharm, Postman/Insomnia, Figma

## WORK EXPERIENCE

### Fullsteam - Full-Stack Software Engineer Intern | Mokena, IL

May 2024 - Aug 2024

- Integrated **HPC-based** AI features using Azure and OpenAI REST APIs, cutting development time by **31%**.
- Performed code analysis and unit testing on **REST APIs**, achieving a **22.3%** reduction in system errors.
- Collaborated in a dynamic, **5-member Agile** team to design, develop, and deliver new features **bi-weekly**.
- Transformed PDFs to structured data using **Azure** Document Intelligence, improving workflow efficiency by **41%**.

### University of Chicago - AI Researcher | Hybrid, US

Dec 2023 - Jan 2024

- Identified Human trafficking patterns in East Africa, achieving **82%** model accuracy by building an **AI+NLP** solution.
- Scraped **300+** research articles and news outlets, applying **TF-IDF & PCA**, boosting **big-data ML** tasks by **20%**.
- Uncovered **18%** more hotspots in unlabeled data by applying **hierarchical clustering** to find thematic patterns.

### Addis Ababa University Research Program - Head Researcher | Hybrid, Ethiopia

Aug 2021 - Sep 2021

- Designed cost-effective solar panels with real-time sun-tracking technology, improving energy efficiency by **19.3%**.
- Validated solar tracking firmware using **Fortran** and **LabView**, reaching **94%** accuracy in performance.
- Led computational physics projects, enhancing **6%** research efficiency in radioactivity decay experimentation.

## LEADERSHIP EXPERIENCE

### Google Developer Clubs - Tech Lead | Greencastle, IN

Aug 2023 - Present

- Led a team of **13+** members, conducting workshops on cloud computing, increasing engagement by **34%**.
- Organized **3+** hackathons, enhancing participant retention by **22%** through improved collaboration.
- Mentored junior developers in **3+** open-source projects to build expertise in collaborative problem-solving.

### DePauw Women's Center Tech Department - President | Greencastle, IN

Oct 2023- Present

- Orchestrated the redesign of the Women's Center website, leveraging **React** and **Motion** for seamless UI/UX.
- Optimized component architecture, reducing load time by **22%** and improving scalability with **React** hooks.

## SPOTLIGHT PROJECTS

### C# .NET MAUI & Azure Traveler: Travel Companion App

[View Project \[GitHub\]](#)

- Developed multi-platform AI travel app using **.NET MAUI** and **SQL database** for trip planning, scheduling, & support.
- Enhanced **UI** and data management by integrating **Azure**, **Open AI**, and **Syncfusion**, boosting speed by **25%**.
- Conducted testing and deployment using **Xcode**, ensuring smooth integration with Apple's ecosystem.
- Leveraged AI to deliver personalized trip suggestions, boosting user engagement by **12%** across **50+** users.

### Python & Firebase VivaVibe: Instagram Auto-Poster with Generative AI

[View Project \[GitHub\]](#)

- Built Python pipeline automating daily Instagram posts, generating captions via **ChatGPT** and images using **DALL-E 3**.
- Integrated **Instagram Graph API** for publishing, automating daily posts and increasing follower engagement by **23%**.
- Stored **200+** posts using **Google Firebase** (Firestore & Storage), improving content management efficiency by **21%**.